



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Reply, Application of:

VALERY DUBIN

Application No.: 10/608,948

Filed: June 26, 2003

For: **Method And Apparatus For An Improved  
Air Gap Interconnect Structure**

Art Group: 2891

Examiner: Menz, Douglas M.

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Respectfully submitted,

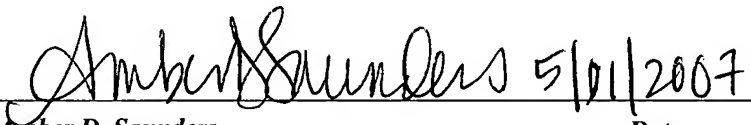
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Date: 5/1/07

  
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Amber D. Saunders 5/1/2007  
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| Substitute for form 1449A/PTO                            |   |    |   | <b>Complete if Known</b> |                  |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |   |    |   | Application Number       | 10/608,948       |
|  |   |    |   | Filing Date              | June 26, 2003    |
|  |   |    |   | First Named Inventor     | Valery Dubin     |
|  |   |    |   | Art Unit                 | 2891             |
|  |   |    |   | Examiner Name            | Menz, Douglas M. |
| Sheet  | 2 | of | 2 | Attorney Docket Number   | 42P14493         |

| NON PATENT LITERATURE DOCUMENTS |                       |   |                |  |
|---------------------------------|-----------------------|---|----------------|--|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |  |
|                                 |                       | Paul A. Kohl et al., "Air-gaps in 0.3/ $\mu$ m electrical interconnections", IEEE Electron Device Letters, Vol. 21, Issue 12, Dec. 2000, pp. 557-559  |                |  |
|                                 |                       | Stefan P. Hau-Riege, "Probabilistic immortality of Cu damascene interconnects", Journal of Applied Physics, February 15, 2002, Vol. 19, Issue 4, pp. 2014-2022  |                |  |
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| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

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<sup>1</sup>Applicant's unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.  
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